International application No. PCT/CA2005/000323

A. CLASSIFICATION OF SUBJECT MATTER

IPC' A61K 31/167 A61P 29/00 A61P 11/00 A61P 31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC' A61K 31/167 A61P 29/00 A61P 11/00 A61P 31/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Canadian Patent Database Delphion ESP@CENET NCBI (PubMed)

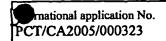
C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
x	CA 2 365 290 A1 (LANG ET AL.)	I-2 and 4-5
Y	08 September 2000 see whole document	3
x	WO 01/72701 A1 (ALI ET AL.)	I-2 and 4-5
Y	04 October 2001 see whole document	3
x	CHAN ET AL.: "Ceramide path in human lung cell death" AM. J. RESPIR. CELL MOL. BIOL., vol. 22, April 2000, American Thoracic Society, pages 460-468. see whole document	3
x	WO 00/00207 A1 (MAURER ET AL.) 06 January 2000 see whole document	3
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[X]	Further documents are listed in the continuation of Box C.	[X]	See patent family annex.		
•	Special categories of cited documents: "T		later document published after the international filing date or priority date and not in conflict with the application but cited to understand		
"A"	document defining the general state of the art which is not considered to be of particular relevance		the principle or theory underlying the invention		
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
"L"	document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination		
۳٥٠٠	document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the art		
чp~	document published prior to the international filing date but later than the priority date claimed	*&*	document member of the same patent family		
Date	e of the actual completion of the international search	Date	of mailing of the international search report		
07 /	07 April 2005 (07-04-2005)		06 June 2005 (06.06.2005)		
Nan	Name and mailing address of the ISA/CA		Authorized officer		
Can	Canadian Intellectual Property Office				
	Place du Portage I, Cl 14 - 1st Floor, Box PCT		Tania Nish (819) 934-3592		
	/ictoria Street	1	•		
	neau, Quebec K1A 0C9	1			
Facs	rimile No.: 001(819)953-2476	1	•		

International application No. PCT/CA2005/000323

egory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
х	ERDREICH-EPSTEIN ET AL.: "Ceramide signaling in fenretinide-induced endothelial cell apoptosis" J. BIOL. CHEM., vol. 277, December 20, 2002, ASBMB, pages 49531-49537. see whole document	3
х	MAURER ET AL: "Increase of ceramide and induction of mixed apoptosis/necrosis by N-(4-hydroxyphenyl)-retinamide in neuroblastoma cell lines" JNCI, vol. 91, July 7, 1999, Oxford University Press, pages 1138-1146. see whole document	3
P,X	WO 2004/064823 A1 (PERRIE ET AL.) 05 August 2004 see whole document	1-5
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Воз	N	o.]	Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)
Thi:			national search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	rχ	1	Claim Nos.: 1-5
•.	[.,	because they relate to subject matter not required to be searched by this Authority, namely:
			Claims 1-5 are methods of medical treatment. (Rule 39.1(iv) PCT) Although claims 1-3 are directed to methods of medical treatment of the human/animal body, the search has been carried out based on the alleged effects of ferretinide and derivatives/analogs and ceramide and derivatives/analogs on pro-inflammation, inflammatory response and proliferation and respiratory tract infection.
2.	ſΧ	(1	Claim Nos.: 1-5
	•	-,	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
			Present claims 1-5 relate to a method to treat inflammation with a compound that increases ceramide levels in the cell. The claims cover an extremely large number of possible compounds, including currently undiscovered compounds. As such, the extremely large number of options of compounds renders the claims unclear and not concise within the meaning of Article 6 PCT that a meaningful search is not possible. Consequently, the search has been carried out for only a limited number of compounds which are disclosed in the disclosure, namely fenretinide and derivatives/analogs thereof and ceramide and derivatives/analogs thereof.
3.	E	J	Claim Nos.:
			because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box	No	.]	III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
		_	national Searching Authority found multiple inventions in this international application, as follows:
	r	,	As all required additional search fees were timely paid by the applicant, this international search report covers all
I.	l	j	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	[]	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite
			payment of any additional fee.
3.	[]	As only some of the required additional search fees were timely paid by the applicant, this international search report
			covers only those claims for which fees were paid, specifically claim Nos.:
4.	ſ)	No required additional search fees were timely paid by the applicant. Consequently, this international search report is
			restricted to the invention first mentioned in the claims; it is covered by claim Nos. :
			Remark on Protest [] The additional search fees were accompanied by the applicant's protest.
			[] No protest accompanied the payment of additional search fees.

Information on patent family members

hternational application No. PCT/CA2005/000323

Patent Document		Patent Family	Publication	•
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WO20040644823	05-08-2004	N/A		